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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | |
|---|-------------|----------------------|-------------------------|------------------|--|
| 10/730,196 | 12/05/2003 | Yoshihiro Hashimoto | 02008.133001 | 2127 | |
| 7590 10/17/2005 | | | EXAM | EXAMINER | |
| Mr. Jonathan P. Osha | | DEB, AN | DEB, ANJAN K | | |
| Rosenthal & Osha L.L.P. One Houston Center 1221 Mckinney Street, Suite 2800 | | | ART UNIT | PAPER NUMBER | |
| | | | 2858 | 2858 | |
| Houston, TX 77010 | | | DATE MAILED: 10/17/2005 | | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| Supplemental | | | |
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| Notice of Allowability | | | |

| Application No. | Applicant(s) | | | |
|-----------------|-------------------|----------------------|--|--|
| 10/730,196 | HASHIMOTO, YOSHII | HASHIMOTO, YOSHIHIRO | | |
| Examiner | Art Unit | | | |
| Anjan K. Deb | 2858 | | | |

| | Anjan K. Deb | 2858 | |
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| The MAILING DATE of this communication appearable communication appe | OR REMAINS) CLOSED in this apport or other appropriate communication GHTS. This application is subject to and MPEP 1308. | olication. If not include will be mailed in due | ed course. THIS |
| 1. This communication is responsive to <u>amendment filed 08/2</u> | <u>2/2005</u> . | | |
| 2. The allowed claim(s) is/are <u>1-18</u> . | | | |
| 3. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the: | der 35 U.S.C. § 119(a)-(d) or (f). | | |
| 1. Certified copies of the priority documents have | | | |
| 2. Certified copies of the priority documents have | | | |
| Copies of the certified copies of the priority doc International Bureau (PCT Rule 17.2(a)). * Certified copies not received: | uments have been received in this | national stage applica | tion from the |
| • | | | |
| Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. | of this communication to file a reply ENT of this application. | complying with the red | quirements |
| 4. A SUBSTITUTE OATH OR DECLARATION must be submi INFORMAL PATENT APPLICATION (PTO-152) which give | tted. Note the attached EXAMINER s reason(s) why the oath or declara | 'S AMENDMENT or N tion is deficient. | IOTICE OF |
| 5. CORRECTED DRAWINGS (as "replacement sheets") mus | t be submitted. | | |
| (a) ☐ including changes required by the Notice of Draftspers | on's Patent Drawing Review (PTO- | 948) attached | |
| 1) hereto or 2) to Paper No./Mail Date | | | |
| (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date | Amendment / Comment or in the C | Office action of | |
| Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the | ne header according to 37 CFR 1.121(| d). | |
| 6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I | SIT OF BIOLOGICAL MATERIAL INFORTHE DEPOSIT OF BIOLOGIC | nust be submitted. I AL MATERIAL. | Note the |
| | | | |
| Attachment(s) 1. ☑ Notice of References Cited (PTO-892) | 5. | atent Application (PT | O-152) |
| 2. ☑ Notice of Draftperson's Patent Drawing Review (PTO-948) | 6. Interview Summary | (PTO-413), | , |
| 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 | Paper No./Mail Da 8), 7. ☐ Examiner's Amendr | te ment/Comment | |
| Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit | 8. 🛛 Examiner's Stateme | ent of Reasons for Allo | owance |
| of Biological Material | _ | | |
| | 9. | | |
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1. This office action is in response to amendment filed 08/22/2005.

2. The drawings filed on 12/05/2003 are approved by the examiner.

Allowable Subject Matter

3. Claims 1-18 are allowed.

Reasons for Allowance

4. The following is an examiner's statement of reasons for allowance:

The primary reason for allowance of the claims 1,2,5-7, 11-16 is the inclusion of current control unit operable to control the current drawn by a current draw unit from an electrical path to decrease the difference between a predetermined DC voltage and a voltage received by a load, wherein the current control unit controls the drawn current when the voltage supplied to the load varies to be higher or lower than a predetermined voltage value.

The primary reason for allowance of the claims 3,4, is the inclusion of first current change unit provided in said electrical path between said current draw unit and said load to be in parallel to said load, operable to supply a current to said electrical path in a case where a current received by said load increased and draw a current from said electrical path in a case where the current received by said load decreased.

The primary reason for allowance of the claims 8-10 is the inclusion of second current change unit, provided in said electrical path between said power supply and said current draw

unit to be in parallel to said current draw unit, operable to supply a current to said electrical path in a case where the current drawn by said current draw unit increased and draw a current from said electrical path in a case where the current drawn by said current draw unit decreased.

The primary reason for allowance of the claims 17,18 is the inclusion of wherein said control unit controls the drawn current when power supply is on or off.

Conclusion

 The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Kitagawa (US 20020171399) discloses power supply apparatus (Fig. 1) for supplying a voltage through an electrical path to a load 10 and current draw unit 14 operable to draw a current from the electrical path and a current control unit 24 operable to control 21 the current drawn by said current draw unit 14 from said electrical path. While Kitagawa discloses control unit controls the drawn current when the voltage supplied to the load 10 varies to be lower than a predetermined voltage value it does not expressly disclose that the current control unit controls the drawn current when the voltage supplied to the load 10 varies to be higher than a predetermined voltage value so as to decrease the difference between a predetermined DC voltage and the voltage supplied to load.

Johnson (US 6,717,389 B1) discloses power supply apparatus (Fig. 4) for supplying 410 a voltage through an electrical path to a load 440 and current draw unit 470 operable to draw a current (I_T) from the electrical path and a current control unit 460 operable to control the current drawn by the current draw unit 470 from the electrical path. While Johnson discloses control unit 460 controls the drawn current so as to maintain a substantially constant voltage across the load

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it does not expressly disclose that the control unit controls the drawn current when the voltage supplied to the load varies to be higher or lower than a predetermined voltage value.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dr. Anjan K. Deb whose telephone number is 571-272-2228. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lefkowitz Edwards can be reached at 571-272-2180.

Anjan K. Deb

Tel: 571-272-2228

Primary Patent Examiner

frijon/u)d_

E-mail: anjan.deb@uspto.gov

Art Unit: 2858

10/11/05